CITY

COUNTRY

U.S.A.

			tent and Trademark Office: U				
UTILITY	Attorn		Oocket No. 488-000				
PATENT APPLICATION		First Named Inventor or Application Identifier					
TRANSMITTAL	Norihiko Furuta						
(Only for new nonprovisional applications under 37 CFR 1.53(b)	Expres	ss M	ail Label No. EV3428	893316US			
APPLICATION ELEMENTS		ADI	DRESS TO: Assistant Cor	mmissioner for Pat	ents		
See MPEP chapter 600 concerning utility patent application conf	ents		Box Patent A				
			Washington,		1:->		
4 FR R W WATER WA		6.	☐ Microfiche Compute	er Program (App	bendix)		
1.		7	Nucleatide and/or Amir	as Asid Sasuana	o Cuhmissian		
(Submit all original, and a duplicate for rec processing)		7.	Nucleotide and/or Amir (if applicable, all necessary)	io Acia Sequeno	e Subinission		
2. X Specification [Total Pages 16]			a.	able Copy			
(preferred arrangement set forth below)			b.  Paper Copy (ide		ter copy)		
- Descriptive title of the Invention			c. ☐ Statement verif				
- Cross References to Related Applications	Γ		ACCOMPANYING A				
- Statement Regarding Fed sponsored R & D	<u> </u>	8.	☐ Assignment Papers				
- Reference to Microfiche Appendix	1	٠.		(00,000,000,000,000,000,000,000,000,000			
- Background of the Invention	1	9.	☐ 37 CFR 3.73(b) State	ement D Powe	er of Attornev		
- Brief Summary of the Invention	1		(when there is an assigne				
- Brief Description of the Drawings (if filed)	[						
- Detailed Description	ļ	10.	☐ English Translation	Document (if a	oplicable)		
- Claim(s)	ļ						
<ul> <li>Abstract of the Disclosure</li> </ul>	ļ	11.	☐ Information Disclosu		oies of IDS		
6	1.		Statement (IDS)/PT	O-1449 C	itations		
3. \( \overline{\text{Drawing(s)}}\) (35 USC 113) [Total Sheets \( \frac{6}{3} \)	]]		-				
4. Oath an Darlanation [Total Pages 2	}_ /	12.	□ Preliminary Amend	lment			
4. Oath of Declaration [10tal Pages]	]]						
a.   Newly executed (original or copy)		13.	⊠ Return Receipt Post     Return Receipt Post	tcard (MPEP 50	3)		
b. $\square$ Copy from a prior application (37 CFR 1.6	3(a))		(Should be specifically it	temized)			
(for continuation/divisional with Box 17 completed) [Note Box 5 below]	1	1.4	Compli Entity C Sta	tomont filad in r	· ior		
i. DELETION OF INVENTOR(S)	[	14.	Small Entity  Sta	plication, Status			
Signed statement attached deleting	1			d desired	stiff proper		
inventor(s) named in the prior	ļ		an	u uesneu			
application, see 37 CFR 1.63(d)(2) and		15	☐ Certified Copy of Pi	riority Documer	it(e)		
1.33(b).		15.	(if foreign priority is cla		11(3)		
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5.	}	16.	☑ Other: Certificate o	f Express Mail			
checked). The entire disclosure of the prior	1						
application, from which a copy of the oath or							
declaration is supplied under Box 4b, is consi	dered						
as being part of the disclosure of the	1						
accompanying application and is hereby	ſ						
incorporated by reference therein.			<del></del>				
17. If a CONTINUING APPLICATION, check appr	opriate l	box :	and supply the requisite	information:			
☐ Continuation ☐ Divisional ☐ Continua				tion No.:/	<del></del>		
18. CORRE	SPONI	DEN	CE ADDRESS				
D. TYLL CO. N. P. C. 100							
NAME Peter T. Holsen (Reg. No. P54,180)	CANTA	T T	IID				
ANDRUS, SCEALES, STARKE &	SAWA	LL,	LLY				
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Suite 1100	I am + ~		117:	ZID CODE	52202 4170		
CITY Milwaukee	STAT	LE [	Wisconsin	ZIP CODE	53202-4178		

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Application Number	PTO/SB/17	COMPLETE IF KNOWN							
FEE TRANSMITTAL   Filing Date   77,23/2003   70,27/2003   77,27/2003		h							
First Named Inventor									
Examiner Name	LEE HAMBRITTAN			Nam	ed Inve	ntor Norihiko Furuta			
METHOD OF PAYMENT (check one)									
METHOD OF PAYMENT (check one)   Commissioner is hereby authorized to charge large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe									
METHOD OF PAYMENT (check one)   Charge indicated fees and credit any over payments to:			Atto	rney	Docket				
Large Entity Small Entity   Large Entity Small Entity   Surcharge-late filing fee or oath   Color (\$)   Code	METHOD OF PAYMENT (check one)					ALCULATION (continued)			
Deposit   Account   Andrus, Sceales, Starke & Sawall, LLP   Name   Andrus, Sceales, Starke & Sawall, LLP   105   130   205   65   Surcharge-late filing fee or oath   Surcharge-late fling fee   One-creating fling fee   One-creating fling fee   One-creating fling fee   One-creating fee   One-creating fling fee   One-creating fee   One-creating fling fee   One									
Code (\$)   Code (\$)   Fee Description   Fee Paid	· · · · · · · · · · · · · · · · · · ·					,			
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Account	Denosit —————————					Surcharge-late provisional filing fee			
Name	Account Andrus, Sceales, Starke & Sawall, LLP								
Section   Company   Comp									
Substitute   Sub									
The maining of the Notice of Allowance, 37 CFR 1.311(b)   115   110   215   55   55   55   55   55   55   5		112	920*	112	920*				
Notice of Allowance, 37 CFR 131(b)   115   110   215   55   Extension for response within first month	1	,,,	1.040*	112	1.040*				
3. ⊠ Payment Enclosed: □ Money Order □ Other  FEE CALCULATION (Gees effective 10/01/97)  1. Filling Fee Large Entity Small Entity Foe Fee Fee Fee Fee Code (\$) Code (\$)  101 750 201 375 Utility filing fee 107 480 207 240 Plant filing fee 108 690 208 345 Resisse filing fee 114 150 214 75 Provisional filing fee 120 310 220 155  SUBTOTAL (I) (\$) 750.00  2. Claims  Extra Fee from Fee Paid below Total claims 5-20= 0 X =   141 349 241 660   240		113	1,840*	113	1,040*				
3. Experiment Enclosed:	l	115	110	215	55				
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This   Fee	⊠ Check □ Money Order □ Other	116	400	216	200				
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Large Entity Small Entity   Ere Fee   Fee   Fee   Code (\$)   118   1,510   218   755   Extension for response within fourth   month		117	950	217	475				
18	Large Entity Small Entity								
128    2,060    228    1,030    Extension for response within fifth month		118	1,510	218	755				
101   750   201   375   Utility filing fee   106   330   206   165   Design filing fee   107   480   207   240   Plant filing fee   120   310   220   155   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   135   Piling a brief in support of an appeal   121   270   221   231	Code (\$) Code (\$)	120	2.000	220	1.020				
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107 480   207 240   Plant filling fee   120 310 220   155   Filling a brief in support of an appeal   108 690 208 345 Reissue filling fee   121 270 221 135   Request for oral hearing	101 750 201 375 Utility filing fee \$750	110	310	219	155				
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SUBMITTED BY  SUBTOTAL (1) (\$) 750.00  138 1,510 138 1,510 Petition to institute a public use proceeding proceeding proceeding petition to institute a public use proceeding proceeding proceeding petition to revive unavoidably abandoned application shadoned application abandoned application [141 1,320 241 660 Petition to revive unintentionally abandoned application [141 1,320 242 660 Utility issue fee (or reissue) [143 450 243 225 660 Utility issue fee (or reissue) [144 670 244 335 Plant issue fee [145 670 244 335 Plant issue fee [146 670 244 335 Plant issue fee [147 1,320 242 670 Petitions to the Commissioner [147 1,320 242 670 Petitions related to provisional applications applications [148 1,320 242 670 Petitions related to provisional applications [149 1,320 242 670 Petitions related to provisional applications [140 1,320 240 Petitions related to provisional applications [140 1,320 242 670 Petitions related to provisional applications [140 1,320 240 Petition to revive unavoidably abandoned application [141 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 242 660 Utility issue fee [148 1,320 242 660 Utility issue fee [148 1,320 242 670 244 335 Plant issue fee [148 1,320 242 670 Petition to revive unintentionally abandoned application [149 1,320 242 670 Petition to revive unintentionally abandoned application [149 1,320 242 670 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revive unintentionally abandoned application [148 1,320 241 660 Petition to revise unintention [148 1,320 241 660 Petition to revise unintention [148 1,320 241 670 240 80 Petition to revise unint						Request for oral hearing			
SUBTOTAL (1) (\$) 750.00  140 110 240 55 Petition to revive unavoidably abandoned application  2. Claims  Extra Fee from below  Total claims 5-20= 0 X = 142 1,320 241 660 Petition to revive unintentionally abandoned application  142 1,320 242 660 Utility issue fee (or reissue)  Independent 1 - 3 = 0 X = 143 450 243 225 Design issue fee  Claims  Claims  Large Entity Small Entity Fee Fee Fee Fee Fee Description  Code (\$) Code (\$)  Todal claims 5-20= 0 X = 143 450 243 225 Design issue fee  Italians 122 130 122 130 Petitions to the Commissioner  Italians 123 50 123 50 Petitions to the Commissioner  Italians 124 146 670 244 335 Petitions to the Commissioner  Italians 125 135 140 Petitions related to provisional applications  Italians 125 140 Petitions to the Commissioner  Italians 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 203 9 Claims in excess of 20 102 78 202 39 Independent claims in excess of 31 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 203 9 Claims in excess of 20 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 203 9 Claims in excess of 20 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 203 9 Claims in excess of 20 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 203 9 Claims in excess of 20 140 581 40 Recording each patent assignment per property (limes number of properties)  Italians 203 9 Claims in excess of 20 140 581 40 Recording each patent excess of 20 140 581 40 Recording each patent excess of 20 140 581 40 Recording each patent excess of 20 140 581 40 Recording each patent ex		138	1,510	138	1,510	Petition to institute a public use			
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Multiple Dependent Claims Large Entity Small Entity Fee Fee Fee Fee Fee Description Code (\$) Code (\$)  103 18 203 9 Claims in excess of 20 102 78 202 39 Independent claims in excess of 3 104 270 204 135 Multiple dependent claim over original patent 110 22 210 11 Reissue independent 110 22 210 11 Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 0  SUBMITTED BY  Type or Printed name  122 130 122 130 Petitions to the Commissioner 123 50 123 50 Petitions related to provisional applications 126 240 126 240 Submission of Information Disclosure Statement  Statement  Fee Fee Fee Fee Fee Pee Description  126 240 126 240 Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Pee Description  126 240 126 240 Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Fee Description  126 240 126 240 Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Fee Description  126 240 126 240 Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Fee Description  126 240 126 240 Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Fee Description  126 240 126 240 Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Fee Pee Description  126 240 126 240 395 Filing a submission after final rejection (37 CFR 1.129(a))  149 790 249 395 For each additional invention to be examined (37 CFR 1.129(b))  Type of Submission of Information Disclosure Statement  Fee Fee Fee Fee Fee Fee Pee Pee Tile Pee Fee Pee Pee Tile Pee Fee Fee Pee Fee Fee Pee Fee Fee Pee Fee F		•				DI .: C			
Claims Large Entity Small Entity Fee Fee Fee Fee Fee Pee Description Code (\$) Code (\$)  103 18 203 9 Claims in excess of 20 102 78 202 39 Independent claims in excess of 3 104 270 204 135 Multiple dependent claim reaching patent 109 82 209 41 Reissue independent claims in excess of 20 and over original patent  110 22 210 11 Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 0  SUBTOTAL (2) (\$) 0  SUBMITTED BY  Type or Printed name    123 50 123 50 Petitions related to provisional applications   126 240 126 240   Submission of Information Disclosure Statement     126 240 126 240   Submission of Information Disclosure Statement     126 240 126 240   Submission of Information Disclosure Statement     127 50 240   Submission of Information Disclosure Statement     128 50 123 50 Petitions related to provisional applications     128 240 126 240   Submission of Information Disclosure Statement     128 50 123 50 Petitions related to provisional applications     128 240 126 240   Submission of Information Disclosure Statement     128 240 126 240   Submission of Information Disclosure Statement     128 240 126 240   Submission of Information Disclosure Statement     128 240 126 240   Submission of Information Disclosure Statement     128 240 126 240   Submission of Information Disclosure Statement     128 240 126 240   Submission of Information Disclosure Statement     140 790 246 395   Filing a submission after final rejection (37 CFR 1.129(a))     149 790 249 395   For each additional invention to be examined (37 CFR 1.129(b))     149 790 249 395   For each additional invention to be examined (37 CFR 1.129(b))     149 790 249 395   For each additional invention to be examined (37 CFR 1.129(b))     149 790 249 395   For each additional invention to be examined (37 CFR 1.129(b))     149 790 249 395   For each additional invention to be examined (37 CFR 1.129(b))     149 790 249 395   For each additional invention to be examined (37 CFR 1.129(a))     140 790 249 395   For each additional invention		122	130	122	130				
Large Entity   Small Entity   Fee   Fee   Fee   Fee   Fee   Fee   Description   126   240   126   240   Submission of Information Disclosure Statement	_ · ·	123	50	123	50	-			
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104 270 204 135 Multiple dependent claim 109 82 209 41 Reissue independent 110 22 210 11 Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 0  SUBMITTED BY  Type or Printed name  Printed name  Type or Printed name  Andrus, Sceales, Starke & Sawall, LLP  146 790 246 395 Filing a submission after final rejection (37 CFR 1.129(a)) 149 790 249 395 For each additional invention to be examined (37 CFR 1.129(b))  Other fee (specify)  Other fee (specify)  *Reduced by Basic Filing Fee Paid  COMPLETE (if applicable)  Registration Number  P54,180  Pate 7/23/2003 Deposit Account									
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Type or Peter T. Holsen Printed name Andrus, Sceales, Starke & Sawall, LLP  Date 7/23/2003 Deposit Account									
Type or Peter T. Holsen Registration Number P54,180  Printed name Andrus, Sceales, Starke & Sawall, LLP Date 7/23/2003 Deposit Account	SUBMITTED BY		COMPLETE (if applicable)						
Printed name Andrus, Sceales, Starke & Sawall, LLP  Date 7/23/2003 Deposit Account	Type or Peter T. Holsen Registration Number P54,180								
Date 7/23/2003 Deposit Account		P							
Signature User ID	1/1/1-0//		Date	7/23	/2003	Deposit Account			
	Signature Felle Material					User ID			

## CERTIFICATE OF EXPRESS MAIL

This is to certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL POST OFFICE TO ADDRESSEE in an envelope addressed to Commissioner of Patents and Trademarks, Washington D.C., 20231 on July 23, 2003. The Express Label is <a href="EXP342893316US">EV342893316US</a>.

Barbara A. Johnson

Name

Date

7-23-03

Signature

Date